The Great Lakes Forecasting System: Research to Operations

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DEVELOPMENT Great Lakes Forecasting System (GLFS) **Lake Erie POM Generation 0** - low 1992-2004 resolution grid OSU Keith Bedford **Contributors GLERL David Schwab**

The NOAA Great Lakes Coastal Forecasting System (GLCFS) is a set of models that simulate and predict the 2-D and 3-D structure of currents, temperatures, winds, waves, ice, and water levels in the Great Lakes.

Nowcasts and forecasts are generated throughout the day in near-realtime. These predictions provide timely information to lake carriers, mariners, port and beach managers, emergency response teams, and recreational boaters, surfers, and anglers. The GLCFS uses a modified Princeton Ocean Model (POM), developed by GLERL and the Ohio State University, and is supported by the National Weather Service. Model output is available in a variety of formats including ascii, netCDF, Grib, and KML.

The POM-based research version of GLCFS was successfully transferred to NOS operations starting in 2006. Currently, GLERL is developing and testing the next generation of models using the Finite Volume Coastal Ocean Model (FVCOM), and is in the early stages of transferring to operations.

